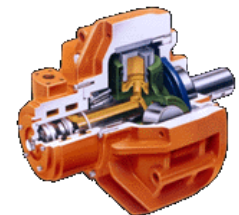


EV's are part of Manufacturing & Advanced Engineering Sector

£1bn GVA p.a



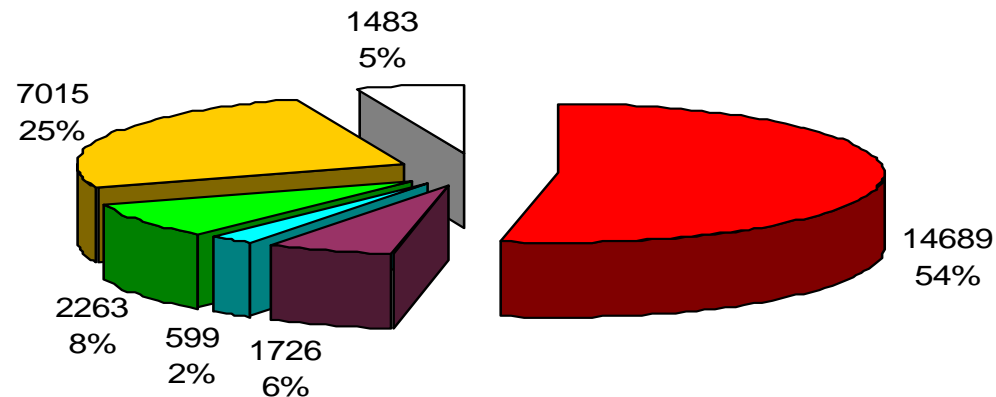
Sector split

➤ Estimated 28,000 jobs in the sector within 260+ companies.

[List of manu and eng companies in region Apr 07.xls](#)

➤ Split into broad categories below:

Estimated % & Job Number Split



- | | |
|-------------------------------------|--|
| ■ Automotive | ■ Aerospace |
| ■ Electronics | ■ Fabs, precision engineering & design |
| ■ Off Highway & Commercial vehicles | ■ Misc |

Note: Excludes Marine & Defence

ONE LCV Programme

Skills

- Universities MSC LCV
- AMAP
- Gateshead College Service Training SEV & AA
- Centre for Electric Drives
- Centre For Design & Research Northumbria

Infrastructure

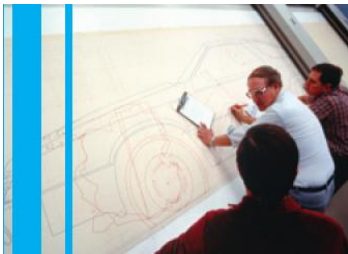
- Leading city
- "J" Cities
- National spec
- Charging roll out,
- Commercial partnering
- Renewable leverage Wind & PV
- DFT Vehicles Commercial Vehicles Programme

R & D

- R & D LCV Test track
- R & D regional facilities
- TSB & Regional fund
- £30m over 5 years min
- Transport Operational Research Group TORG
- Power Electronics, Drives and Machine Group
- NAREC power distribution
- CPI, Fuel cell & Bio fuels

Manufacturers

- Nissan EV
- Ford / Smiths
- AVID
- Comesys
- Hiltech
- Liberty
- Cummins
- CAT
- Komatsu
- Explorer
- Scott racing
- Plus others



Manufacturers



- Nissan EV
- Ford / Smiths
- AVID
- Comesys
- Hiltech
- Liberty
- Cummins
- CAT
- Komatsu
- Explorer
- Scott racing
- Plus others

Nissan



Ford - SEV



LTI - SEV



Elescoot



Optare



AVID & Partners

LDV Vans and Minibuses



Proton cars

Genetic silver
(Metallic)



Optare Light Public Buses



MMI
Sports
cars

Comesys



Liberty



Jumbotugs



Caterpillar



Komatsu



SEVCON



Cummins



Explorer



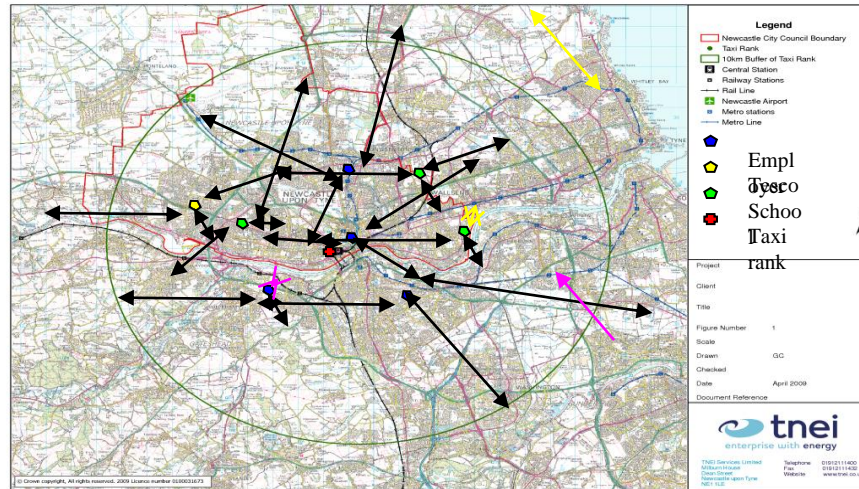
Hiltech



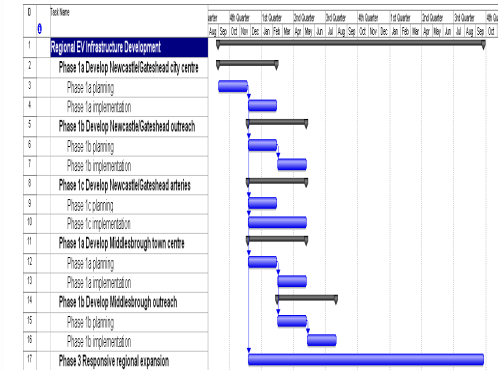
Infrastructure

- Leading city
- "J" Cities
- National spec
- Charging roll out,
- Commercial partnering
- Renewable leverage
Wind & PV
- DFT Vehicles
Commercial Vehicles
Programme

EV Hub – up to 1300 charging posts



Planned Roll Out



Setting the UK STD

NAREC



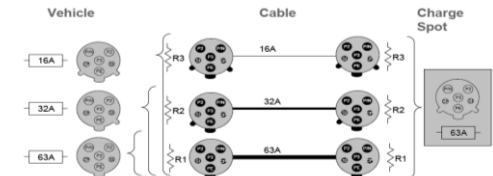
PV - Romag



TSB Demonstration



Mechanical code of connectors



Commercial Partners



Hydrogen



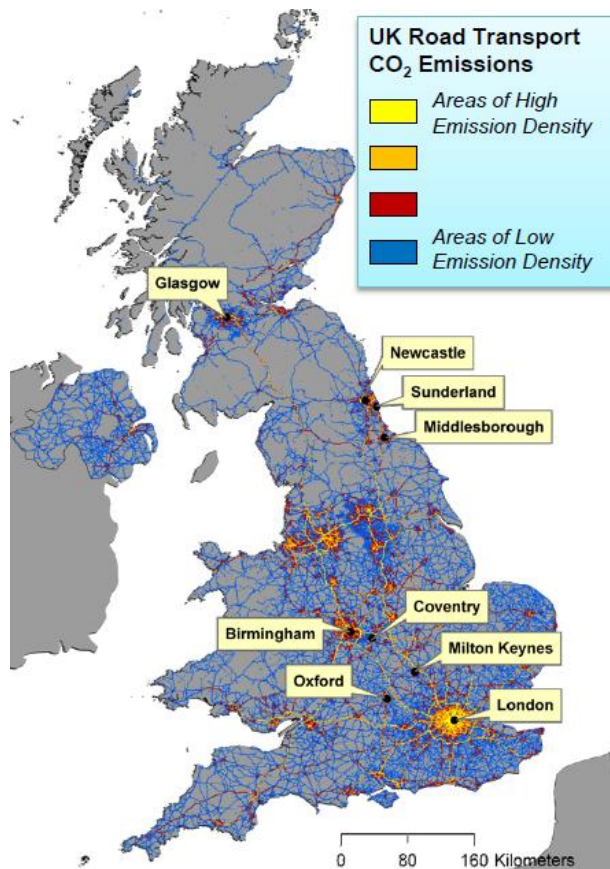
DFT Procurement

Department for
Transport

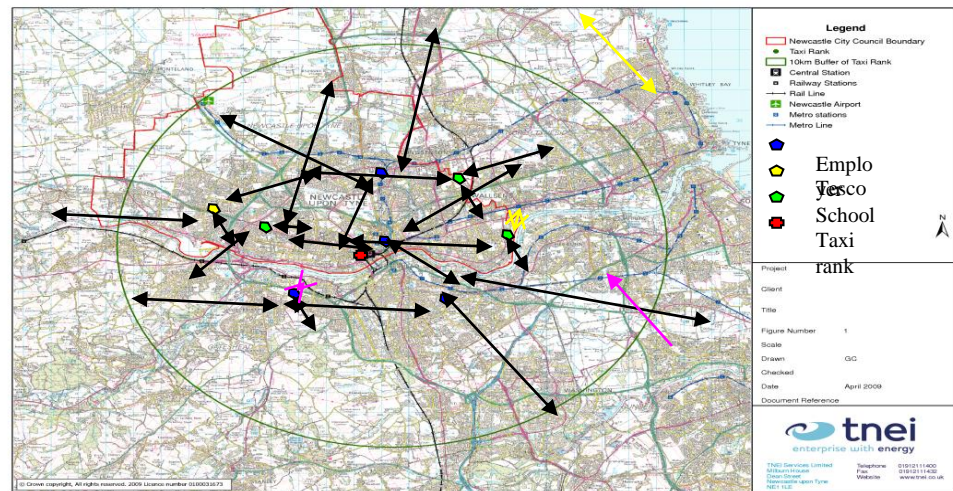
Newcastle &
Gateshead Councils

Infrastructure Update

Joined Up Cities



Regional Infrastructure – 1300 charge points 2010 /11



Plugged in Places £30m Funding



Skills

- Universities MSC LCV
- AMAP
- Gateshead College Service Training SEV & AA
- Centre for Electric Drives
- Centre For Design & Research Northumbria

Gateshead College



Apprenticeships



Service



AMAP & First LCV Masters in Science



University of Sunderland
institute for automotive & manufacturing advanced practice

collaboration
innovation
dissemination

Input of knowledge leads to output of thought



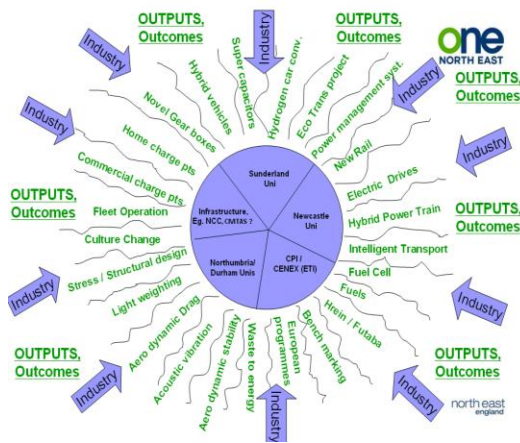






the input of knowledge

Industry Led



Centre for Electric Drives



Automotive partners over the last five years

Leyland Trucks
Eaton
Prodrive
LDV
Aisin Seiki
Robert Bosch
TRW
Comesys
Hitech
Sevcon
Siemens
Volkswagen






Power Electronics, Drives and Machines Research Group

CFDR

BUSINESS PARTNERS



R & D

- R & D LCV Test track
- R & D regional facilities
- TSB & Regional fund
- £30m over 5 years min
- Transport Operational Research Group TORG
- Power Electronics, Drives and Machine Group
- NAREC power distribution
- CPI, Fuel cell & Bio fuels

CPI – Fuel Cells & Bio Fuels



PTEC Centre



LCV R & D Test Track & Facility



Power Electronics & Drives

Applications

- ☐ Aerospace and Automotive
- ☐ Renewable Energy and white and brown goods

Power Electronics

- ☐ Thermal Management
- ☐ Silicon Carbide
- ☐ Novel Converter Topologies and Design

Drives

- ☐ Fault Tolerant Drives
- ☐ High speed drives
- ☐ Sensorless Control and Drive Control Methods
- ☐ Self tuning and adaptive control

Machines

- ☐ Novel SRMs and TFMs
- ☐ Iron Powdered and Soft Magnetic Composites
- ☐ Virtual machines and systems

Others

- ☐ Low Cost Machines, Drives and Power Converters
- ☐ Methods of machines and converter production





Areas of Expertise

Newcastle University

Power Electronics, Drives and Machines Research Group



TORG



AMAP

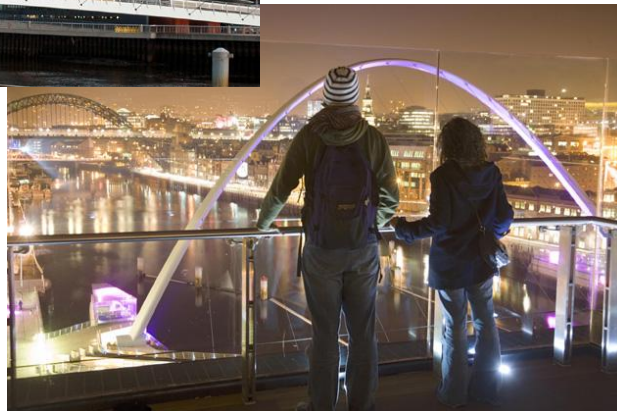


CENEX National event / Science Fest



National CENEX /OLEV
23rd – 25th March

ScienceFest
12th – 21st March



Public & Industry Engagement

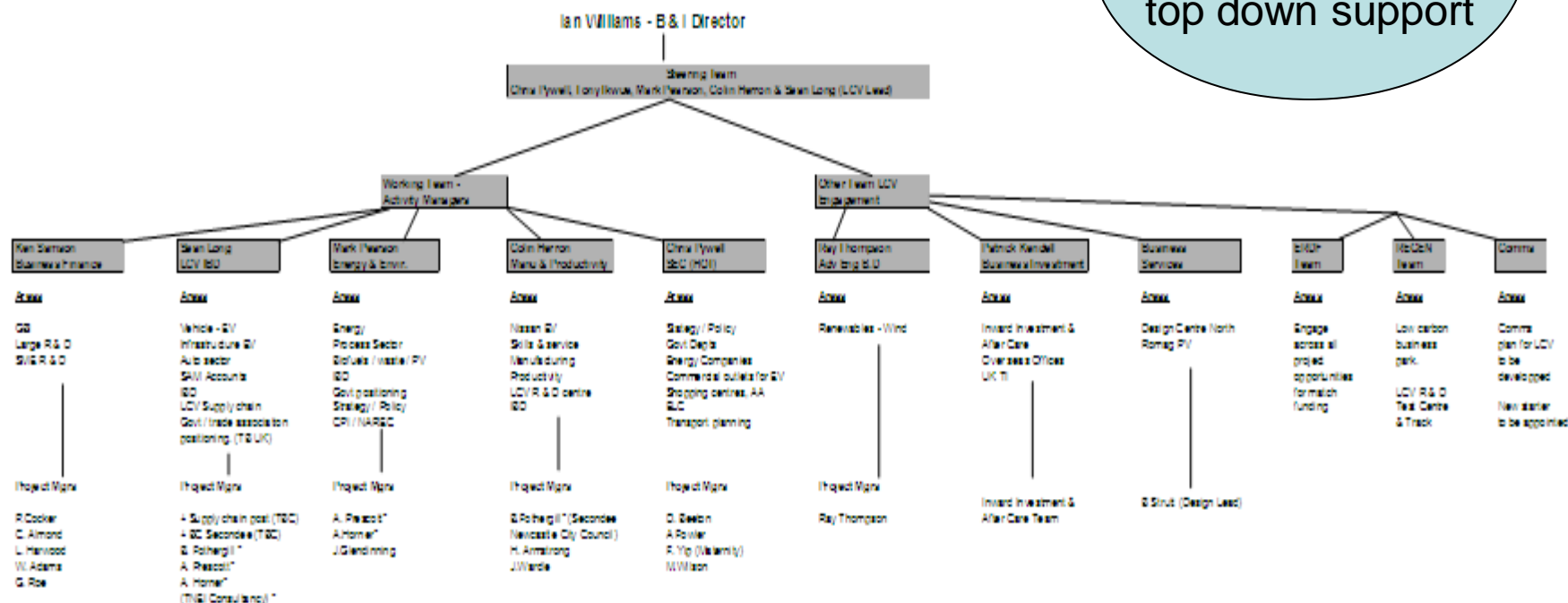
north east
england

What ever you want?



ONEs' Cross Functional Team

30+ staff involved
in LCV Programme,
top down support



LCV Programme & Projects



25 Projects
Currently in
development

Budget of £30+ Million over 2 years

Excluding TSB Calls to come?

LCV Programme

LCV IT projects / Development www.it4it.it, May 2012 (Version 2012)

Sl. No.	Project Name	Category	Sub Category	Year	Start Date	End Date	Project Status	Project Manager	Project Description	Project Budget (USD)	Project Cost (USD)	Project Progress (%)	Project Outcome
1	Project A	Category A	Sub Category A	2020	2020-01-01	2020-12-31	Completed	Project Manager A	Project A Description	1000000	950000	95%	Project A Outcome
2	Project B	Category B	Sub Category B	2021	2021-01-01	2021-12-31	In Progress	Project Manager B	Project B Description	2000000	1500000	75%	Project B Outcome
3	Project C	Category C	Sub Category C	2022	2022-01-01	2022-12-31	Not Started	Project Manager C	Project C Description	3000000	0	0%	Project C Outcome
4	Project D	Category D	Sub Category D	2023	2023-01-01	2023-12-31	Not Started	Project Manager D	Project D Description	4000000	0	0%	Project D Outcome
5	Project E	Category E	Sub Category E	2024	2024-01-01	2024-12-31	Not Started	Project Manager E	Project E Description	5000000	0	0%	Project E Outcome
6	Project F	Category F	Sub Category F	2025	2025-01-01	2025-12-31	Not Started	Project Manager F	Project F Description	6000000	0	0%	Project F Outcome
7	Project G	Category G	Sub Category G	2026	2026-01-01	2026-12-31	Not Started	Project Manager G	Project G Description	7000000	0	0%	Project G Outcome
8	Project H	Category H	Sub Category H	2027	2027-01-01	2027-12-31	Not Started	Project Manager H	Project H Description	8000000	0	0%	Project H Outcome
9	Project I	Category I	Sub Category I	2028	2028-01-01	2028-12-31	Not Started	Project Manager I	Project I Description	9000000	0	0%	Project I Outcome
10	Project J	Category J	Sub Category J	2029	2029-01-01	2029-12-31	Not Started	Project Manager J	Project J Description	10000000	0	0%	Project J Outcome
11	Project K	Category K	Sub Category K	2030	2030-01-01	2030-12-31	Not Started	Project Manager K	Project K Description	11000000	0	0%	Project K Outcome
12	Project L	Category L	Sub Category L	2031	2031-01-01	2031-12-31	Not Started	Project Manager L	Project L Description	12000000	0	0%	Project L Outcome
13	Project M	Category M	Sub Category M	2032	2032-01-01	2032-12-31	Not Started	Project Manager M	Project M Description	13000000	0	0%	Project M Outcome
14	Project N	Category N	Sub Category N	2033	2033-01-01	2033-12-31	Not Started	Project Manager N	Project N Description	14000000	0	0%	Project N Outcome
15	Project O	Category O	Sub Category O	2034	2034-01-01	2034-12-31	Not Started	Project Manager O	Project O Description	15000000	0	0%	Project O Outcome
16	Project P	Category P	Sub Category P	2035	2035-01-01	2035-12-31	Not Started	Project Manager P	Project P Description	16000000	0	0%	Project P Outcome
17	Project Q	Category Q	Sub Category Q	2036	2036-01-01	2036-12-31	Not Started	Project Manager Q	Project Q Description	17000000	0	0%	Project Q Outcome
18	Project R	Category R	Sub Category R	2037	2037-01-01	2037-12-31	Not Started	Project Manager R	Project R Description	18000000	0	0%	Project R Outcome
19	Project S	Category S	Sub Category S	2038	2038-01-01	2038-12-31	Not Started	Project Manager S	Project S Description	19000000	0	0%	Project S Outcome
20	Project T	Category T	Sub Category T	2039	2039-01-01	2039-12-31	Not Started	Project Manager T	Project T Description	20000000	0	0%	Project T Outcome
21	Project U	Category U	Sub Category U	2040	2040-01-01	2040-12-31	Not Started	Project Manager U	Project U Description	21000000	0	0%	Project U Outcome
22	Project V	Category V	Sub Category V	2041	2041-01-01	2041-12-31	Not Started	Project Manager V	Project V Description	22000000	0	0%	Project V Outcome
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27	Project AA	Category AA	Sub Category AA	2046	2046-01-01	2046-12-31	Not Started	Project Manager AA	Project AA Description	27000000	0	0%	Project AA Outcome
28	Project AB	Category AB	Sub Category AB	2047	2047-01-01	2047-12-31	Not Started	Project Manager AB	Project AB Description	28000000	0	0%	Project AB Outcome
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35	Project AI	Category AI	Sub Category AI	2054	2054-01-01	2054-12-31	Not Started	Project Manager AI	Project AI Description	35000000	0	0%	Project AI Outcome
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38	Project AL	Category AL	Sub Category AL	2057	2057-01-01	2057-12-31	Not Started	Project Manager AL	Project AL Description	38000000	0	0%	Project AL Outcome
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42	Project AP	Category AP	Sub Category AP	2061	2061-01-01	2061-12-31	Not Started	Project Manager AP	Project AP Description	42000000	0	0%	Project AP Outcome
43	Project AQ	Category AQ	Sub Category AQ	2062	2062-01-01	2062-12-31	Not Started	Project Manager AQ	Project AQ Description	43000000	0	0%	Project AQ Outcome
44	Project AR	Category AR	Sub Category AR	2063	2063-01-01	2063-12-31	Not Started	Project Manager AR	Project AR Description	44000000	0	0%	Project AR Outcome
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46	Project AT	Category AT	Sub Category AT	2065	2065-01-01	2065-12-31	Not Started	Project Manager AT	Project AT Description	46000000	0	0%	Project AT Outcome
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48	Project AV	Category AV	Sub Category AV	2067	2067-01-01	2067-12-31	Not Started	Project Manager AV	Project AV Description	48000000	0	0%	Project AV Outcome
49	Project AW	Category AW	Sub Category AW	2068	2068-01-01	2068-12-31	Not Started	Project Manager AW	Project AW Description	49000000	0	0%	Project AW Outcome
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66	Project BN	Category BN	Sub Category BN	2085	2085-01-01	2085-12-31	Not Started	Project Manager BN	Project BN Description	66000000	0	0%	Project BN Outcome
67	Project BO	Category BO	Sub Category BO	2086	2086-01-01	2086-12-31	Not Started	Project Manager BO	Project BO Description	67000000	0	0%	Project BO Outcome
68	Project BP	Category BP	Sub Category BP	2087	2087-01-01	2087-12-31	Not Started	Project Manager BP	Project BP Description	68000000	0	0%	Project BP Outcome
69	Project BQ	Category BQ	Sub Category BQ	2088	2088-01-01	2088-12-31	Not Started	Project Manager BQ	Project BQ Description	69000000	0	0%	Project BQ Outcome
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71	Project BS	Category BS	Sub Category BS	2090	2090-01-01	2090-12-31	Not Started	Project Manager BS	Project BS Description	71000000	0	0%	Project BS Outcome
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75	Project BW	Category BW	Sub Category BW	2094	2094-01-01	2094-12-31	Not Started	Project Manager BW	Project BW Description	75000000	0	0%	Project BW Outcome
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77	Project BY	Category BY	Sub Category BY	2096	2096-01-01	2096-12-31	Not Started	Project Manager BY	Project BY Description	77000000	0	0%	Project BY Outcome
78	Project BZ	Category BZ	Sub Category BZ	2097	2097-01-01	2097-12-31	Not Started	Project Manager BZ	Project BZ Description	78000000	0	0%	Project BZ Outcome
79	Project CA	Category CA	Sub Category CA	2098	2098-01-01	2098-12-31	Not Started	Project Manager CA	Project CA Description	79000000	0	0%	Project CA Outcome
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81	Project CC	Category CC	Sub Category CC	2100	2100-01-01	2100-12-31	Not Started	Project Manager CC	Project CC Description	81000000	0	0%	Project CC Outcome
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87	Project CI	Category CI	Sub Category CI	2106	2106-01-01	2106-12-31	Not Started	Project Manager CI	Project CI Description	87000000	0	0%	Project CI Outcome
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89	Project CK	Category CK	Sub Category CK	2108	2108-01-01	2108-12-31	Not Started	Project Manager CK	Project CK Description	89000000	0	0%	Project CK Outcome
90	Project CL	Category CL	Sub Category CL	2109	2109-01-01	2109-12-31	Not Started	Project Manager CL	Project CL Description	90000000	0	0%	Project CL Outcome
91	Project CM	Category CM	Sub Category CM	2110	2110-01-01	2110-12-31	Not Started	Project Manager CM	Project CM Description	91000000	0	0%	Project CM Outcome
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93	Project CO	Category CO	Sub Category CO	2112	2112-01-01	2112-12-31	Not Started	Project Manager CO	Project CO Description	93000000	0	0%	Project CO Outcome
94	Project CP	Category CP	Sub Category CP	2113	2113-01-01	2113-12-31	Not Started	Project Manager CP	Project CP Description	94000000	0	0%	Project CP Outcome
95	Project CQ	Category CQ	Sub Category CQ	2114	2114-01-01	2114-12-31	Not Started	Project Manager CQ	Project CQ Description	95000000	0	0%	Project CQ Outcome
96	Project CR	Category CR	Sub Category CR	2115	2115-01-01	2115-12-31	Not Started	Project Manager CR	Project CR Description	96000000			

Ministerial Support and Highest level of Collaboration



Gordon Brown & Lord Mandelson



Lord Mandelson at SEV



Lord Drayson supporting LCEA



Ian Lucas



Nick Brown

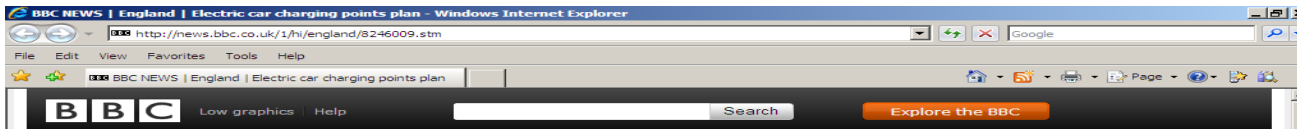


Dr Viv Stephens
- CENEX



Chelsea Sexton
- Lightning Rod Foundation





BBC NEWS | LIVE BBC NEWS CHANNEL

Page last updated at 12:07 GMT, Wednesday, 9 September 2009 13:07 UK

Electric car charging points plan

Nine cities and towns in the UK are to have charging points for electric and hybrid fuelled vehicles under an £11m development plan.

Birmingham, Coventry, Glasgow, London, Middlesbrough, Milton Keynes, Oxford, Newcastle and Sunderland will be the first to benefit from the scheme.

The Energy Technologies Institute (ETI) is behind the development of the plan.

It will eventually go national with the aim of creating a compatible network of recharging points, a spokesman said.

The new plug-in facilities and the attitudes of users to the network will be monitored to assess location of sites and costs of charging.

A number of trials are already under way across the UK with the largest involving 340 vehicles some of which are totally powered by

SEE ALSO

- Jump start for electric car trial 23 Jun 09 | Technology
- Electric cars trialed in cities 23 Jun 09 | West Midlands
- Four-seater electric car unveiled 30 Apr 09 | Beds/Bucks/Herts
- The future of electric motoring 16 Apr 09 | Business
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CBI chief's sustainable vision blows away hot air

Richard Lambert meets manufacturers in the north-east to gain an insight into how the region can reinvent itself

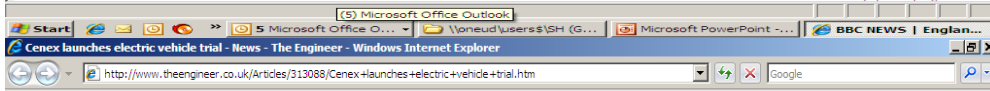
David Teather
The Observer, Sunday 13 September 2009
Article history

In a hangar once used for shipbuilding on the coast at Blyth in the north-east, a large wind turbine blade, looking like the rib of a giant whale, lies flat on a trestle. Another sticking out of a machine at the back of the hangar is being shaken up and down repeatedly. By the end of three weeks, it will have undergone two and a half million cycles in each direction to make sure it doesn't break.

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Business News

Cenex launches electric vehicle trial

Published: 10 September 2009 06:24 AM
Source: The Engineer Online

Hundreds of drivers in northeast England will have the chance to take part in a new electric vehicle trial announced by Cenex, the UK's Centre of Excellence for Low Carbon and Fuel Cell Technologies.

The pilot-scale fleet trial, announced by Cenex and regional development agency One North East at the National Low Carbon Vehicle Event, will see four electric Smart cars deployed in the region for six months from October 2009 that more than 500 people will use over the duration of the trial.

Technical data from the trial will be collected from on-board instruments. Three cars will be on the roads of the northeast, with one primarily based on a test track and fitted with more sophisticated monitoring equipment.

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Praised for attitude to low-carbon cars (From The Northern Echo)

http://www.thenorthernecho.co.uk/business/4593691.Praised_for_attitude_to_low_carbon_cars/

BUSINESS

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Praised for attitude to low-carbon cars

12:52pm Friday 11th September 2009
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By Owen McTeer »

ONE of Nissan's most senior figures has heaped praise on the North-East's "fabulous" attitude to low-carbon vehicles only months before the company will decide where to build its new electric car.

Nissan senior vice-president Andy Palmer said Sunderland would find out whether it has won the race to build the Leaf electric car for the European market by the end of this year.

In July, Nissan announced that its European Centre of Excellence for Battery Manufacturing would sit alongside its car factory in Sunderland, making the region a leading contender to make the electric vehicles.

Mr Palmer, the Japan-based head of the company's electric vehicle programme, spoke to The Northern Echo at the Low Carbon Vehicle Event, (LCV 2009) yesterday. He revealed that Nissan saw hydrogen fuel cell technology as

LCV2009: Andy Palmer, left and One North East's Chris Pywell

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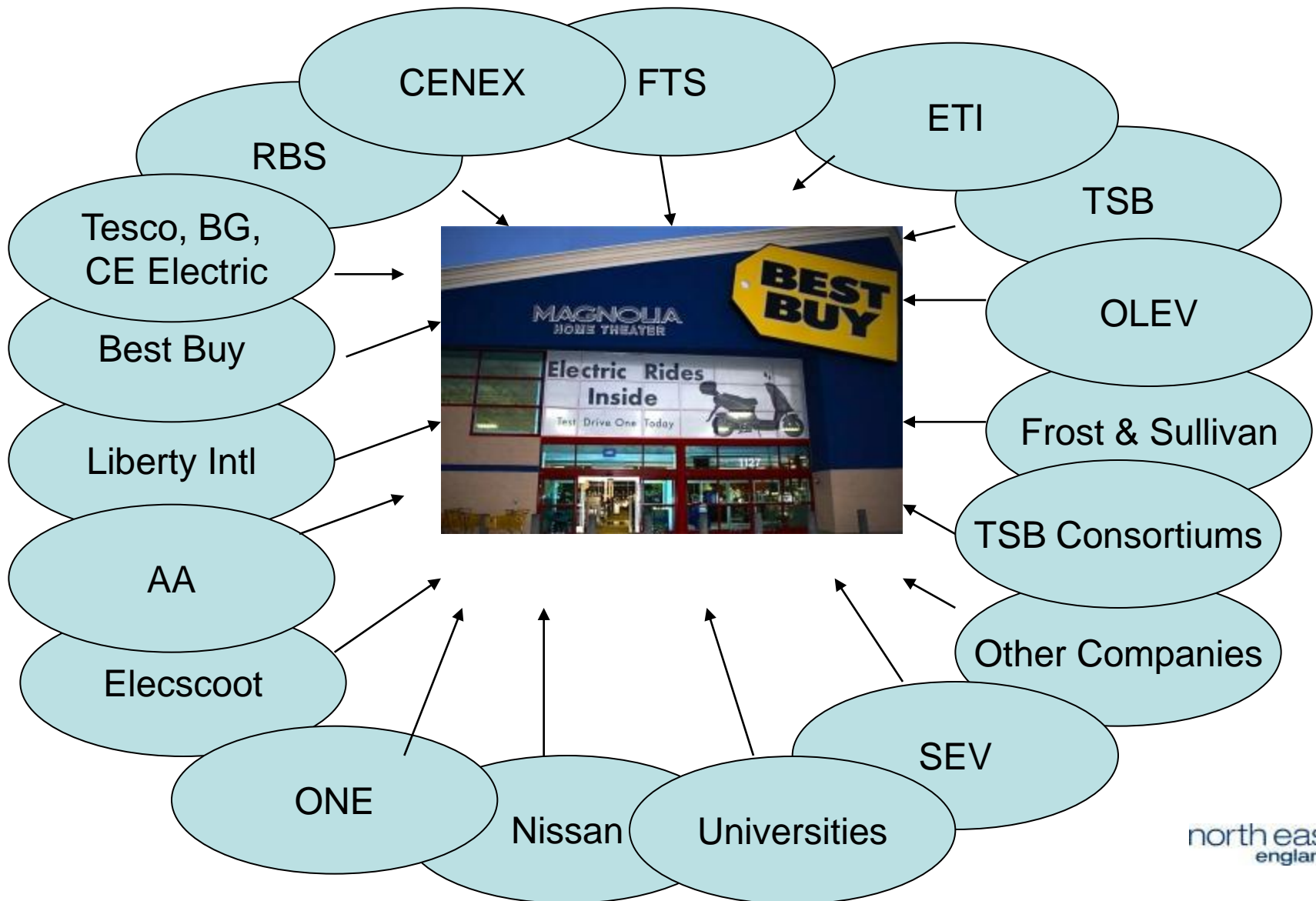
➤ Cenex trial

- <http://www.sunderlandecho.com/news/Electric-cars-coming-to-Wearside.5636483.jp>
- http://www.thenorthernecho.co.uk/business/4591430.Vehicles_on_trial/
- <http://www.theengineer.co.uk/Articles/313088/Cenex+launches+electric+vehicle+trial.htm>

➤ Nissan love/hydrogen

- <http://www.journallive.co.uk/north-east-news/todays-news/2009/09/11/hydrogen-car-charging-plan-is-up-and-running-61634-24661199/>
- <http://www.sunderlandecho.com/news/NE-driving-force-in-electric.5639412.jp>
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- **Also for info – cracking piece in the Observer about CBI boss Richard Lambert loving the North East:**
- <http://www.guardian.co.uk/business/2009/sep/13/manufacturing-sector-energy>

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